AGFACOLOR
MCN 111 PAPER

TECHNICAL DATA

AGFA-GEVAERT, INC.

OCTOBER 1969

GENERAL DESCRIPTION

Agfacolor Paper Type MCNIII is a high-speed color paper for printing color negative materials. MCNIII is suitable for amateur photo finishing and professional applications. It is available in standard sheet and roll sizes.

EMULSION STRUCTURE

Upper layer : sensitive to blue light, develops yellow dye
Middle layer : sensitive to green light, develops magenta dye
Bottom layer : sensitive to red light, develops cyan dye

MAXIMUM SENSITIVITIES

Blue sensitive layer : approx. 455 millimicron
Green sensitive layer : approx. 550 millimicron
Red sensitive layer : approx. 700 millimicron

SAFELIGHT FILTER

Agfa-Gevaert 0 8 (transmission maximum at 580 millimicron)

Note: Safelight filters of other manufacture can be used, provided they have similar spectral transmission characteristics. We recommend testing your safelights.

STORAGE

Refrigeration recommended. (Temperatures below 50°F)

PROCESSING TIMES AND SEQUENCE

(Continuous processors, Basket lines and Tray Processing)

	77°F	85°F	
solution	time	time	
Developer Pa 1/60	3 min.	2 min.	DARK
After Rinse	¾ min.	½ min.	
Stop-fix PPa II/KM	1¾ min.	1 min.	
Bleach-fix PPa III/KM	3½ min.	2 min.	LIGHT
Wash	5¼ min.	5 min.	
Stablizer Pa VI S	1¾ min.	1 min.	

NOTE:

Treatment in stop-fix, bleach fix, second wash and stabilizer may be extended, if this is more practical due to the design of the processing equipment.

CAUTION:

Do not use brass tanks or other brass parts with bleach fix.

KEEPING PROPERTIES OF AGFACOLOR PAPER CHEMICALS

Mixed in stoppered bottles

Developer	1 Month
Secondary Solutions	3 Months

Keeping properties of solutions in a well-replenished processing line are excellent.

CAPACITY OF SOLUTIONS WITHOUT REPLENISHMENT

Developer	40	8 x 10 per gallon
Secondary Solutions	120	8 x 10 per gallon

REPLENISHING RATES

SOLUTION		Per Sheet 8" x 10"	Per Foot* 3½" Wide
Developer Replenisher	RPa 60	22cc	11cc
Stop-fix Replenisher	RPPa II/KM	28cc	14cc
Bleach-fix	PPa III/KM**	28cc	14cc
Stabilizer Replenisher	RPa VI S	22cc	11cc

*To obtain 5" rates, multiply the 3½" rates by 1.43. Likewise, to obtain rates for 8" paper use 2.29

**Bleach-fix is replenished with starter solution.

PREPARATION OF SOLUTIONS

The preparation of the different starter and replenisher solutions is very simple. Each component of a mix is identified by a letter. When preparing the solution, the various parts are simply dissolved in alphabetical order. The label on each chemical kit gives complete instructions for mixing.

When making a stabilizer or a stabilizer-replenisher, formaldehyde (which is not part of the kit) should be added to the mix. The recommended quantity to be added is given on the label of the stabilizer kit.

With the use of a pressure ferrotyper, the formaldehyde to be added to stabilizer and stabilizer-replenisher should be reduced to 1 oz. per gallon. A higher concentration may result in poor gloss.

PRINT DEFECTS AND THEIR CAUSES

Print Defects	Causes
Gradual loss of density	sign of under-replenishment of developer
Gradual gain of density	sign of over-replenishment of developer
Less density, Possibly blue shadows, Lower contrast.	Low developing temperature; Under-replenishment; Developing time too short.
High density, Possibly yellow shadows, Higher contrast.	High developing temperature; Over-replenishment; Developing time too long.
Low density, Low contrast, Green shadows.	Developer heavily under-replenished. pH too low.
Stain, gray or gray-yellow, Increase in overall density and contrast	Developer heavily over-replenished.
Whites have heavy yellow cast	Contamination of developer with stop-fix or bleach-fix
Very light and green prints	Contamination of developer with formaldehyde
Color balance shifting during the day from red towards cyan	Heavy oxidation of developer during night or weekend. (Turn off pumps overnight, possibly add replenisher before starting in the morning).
Density and contrast normal, but color balance too blue, especially in shadows	Insufficient after-development in first wash. (Increase wash time, decrease wash rate, do not use squeegee between developer tank and wash tank.)
Heavy staining, possibly all colors, partially or over entire area.	Traces of stop-fix in wash after developer.
Stain gray or gray-yellow	Stop-fix and bleach-fix under-replenished

PRINT DEFECTS AND THEIR CAUSES

Print Defects	Causes
Red shadows	pH of bleachfix too low; temperature too low; under-replenished, time too short.
Red shadows, Whites gray-yellow, Colors possibly have somewhat higher gray content	Heavily under-replenished bleach-fix
Whites, cyan or gray	Insufficient wash; insufficient formaldehyde in stabilizer; prints possibly washed again after treatment in stabilizer.

NOTE:

Whenever the developer is found to be contaminated, the replenisher should also be checked, since the contamination could have originated from the replenisher.

When a processing error is traced to the bleach-fix and this bath is being changed, it is advisable to also change the stop-fix.

AGFACOLOR PAPER CONTROL STRIPS

MCN 111 test strips to be used in the control of the paper processing are available in packages of 25. The size of the pre-exposed material is 3½" x 10¾".

A factory-processed master is enclosed with each package as well as instructions for the evaluation.

PROCESSING TIMES FOR RAPID DRUM TYPE PROCESSORS (77F)

Pre-rinse (water in tray)	½ min.	DARK
Developer	2½ min.	
Wash	½ min.	
Stop-fix	1 min.	
Bleach-fix	2 min.	LIGHT
Wash	2 min.	
Stabilizer	1 min.	

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